

**DECLARATION**

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: "REDUCED CIRCUIT TRACE ROUGHNESS FOR IMPROVED SIGNAL PERFORMANCE", the specification of which:

(X only one) (a) X is attached hereto.  
(b)        was filed as U.S. Patent Application No.                      on           , 20  , and was amended on           , 20   (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I hereby acknowledge the duty to disclose all information known to me to be material to the patentability of this application as defined in 37 CFR § 1.56, including, for a continuation-in-part application, material information which became available between the filing date of the prior application and the national or international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate, under 35 U.S.C. § 365(a) of any international application(s) designating at least one country other than the United States, or under 35 U.S.C. § 365(b) of any foreign application(s) for patent or inventor's certificate or any international application(s) designating at least one country other than the United States, listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any international application(s) having a filing date before that of any application on which priority is claimed:

Application No.	Country	Filing Date (MM/DD/YY)	Priority Claimed?
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I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date (MM/DD/YY)
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I hereby claim the benefit under 35 U.S.C. § 120 of any United States non-provisional application(s) listed below:

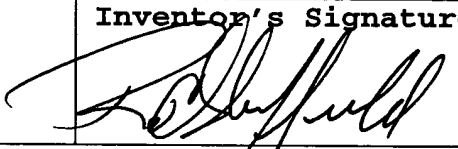
Application No.	Filing Date (MM/DD/YY)	Status (Patented, Pending, Abandoned)
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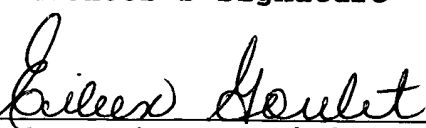
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of this application or any patent issued thereon.

I hereby request that all correspondence and telephone communications for this application be directed to:

Thomas E. Anderson  
Hunton & Williams LLP  
1900 K Street, N.W.  
Washington, D.C. 20006-1109  
telephone (202) 955-1500  
facsimile (202) 778-2201

I now hereby execute this document on the date indicated below:

1	<b>Full Name</b> Robert Sheffield	<b>Inventor's Signature</b> 	<b>Date</b> Sept 15, 2003
	<b>Residence (city, state, country)</b> 87 Hopewell Avenue Ottawa, ON CANADA K1S 2Y9		
	<b>Citizenship</b> Canada		
	<b>Post Office Address (include zip code)</b> 87 Hopewell Avenue Ottawa, ON CANADA K1S 2Y9		

2	<b>Full Name</b> Eileen Goulet	<b>Inventor's Signature</b> 	<b>Date</b> 22/09/03				
	<table border="0"> <tr> <td><b>Residence (city, state, country)</b></td> <td><b>Citizenship</b></td> </tr> <tr> <td>68 Rue Lotbiniere Gatineau, QC CANADA J8T 4Y6</td> <td>Canada</td> </tr> </table>			<b>Residence (city, state, country)</b>	<b>Citizenship</b>	68 Rue Lotbiniere Gatineau, QC CANADA J8T 4Y6	Canada
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68 Rue Lotbiniere Gatineau, QC CANADA J8T 4Y6	Canada						
<b>Post Office Address (include zip code)</b> 68 Rue Lotbiniere Gatineau, QC CANADA J8T 4Y6							

Patent Application  
Attorney Docket No.: 57983.000131  
Client Reference No.: 15901ROUS01U

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: :  
: :  
Robert SHEFFIELD et al. : Group Art Unit: unassigned  
: :  
Appln. No.: unassigned :  
: Examiner: unassigned  
Filed: herewith :  
: :  
For: REDUCED CIRCUIT TRACE :  
ROUGHNESS FOR IMPROVED :  
SIGNAL PERFORMANCE :

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**POWER OF ATTORNEY AND/OR AUTHORIZATION OF AGENT BY ASSIGNEE**  
**UNDER 37 CFR §§ 1.36, 3.71, AND 3.73**

Sir:

Under the provisions of 37 C.F.R. §§ 1.36, 3.71, and 3.73, Nortel Networks Limited, the assignee of the entire right, title, and interest in the above-referenced patent application and/or patent by virtue of the assignment (check as applicable):

☒ Recorded Concurrently Herewith  
☐ Recorded on \_\_\_\_\_  
☐ Recorded at Reel \_\_\_\_\_ Frame \_\_\_\_\_  
☐ Copy Attached

hereby elects to conduct the prosecution of the above-referenced patent application and/or the maintenance of the above-referenced patent to the exclusion of the inventor(s) and/or any previous assignee(s).

The assignee also hereby revokes any previous powers of attorney and/or authorizations of agent, and hereby appoints the following: Thomas E. Anderson, Reg. No. 37,063; Stanislaus Aksman, Reg. No. 28,562; Jennifer A. Albert, Reg. No. 32,012; David E. Baker, Reg. No. 42,285; Carl L. Benson, Reg. No. 38,378; Christopher C. Campbell, Reg. No. 37,291; Robin C. Clark, Reg. No. 40,956; Ryan S. Davidson, Reg. No. 51,596;

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Patrick A. Doody, Reg. No. 35,022; Kevin T. Duncan, Reg. No. 41,495; Ozzie Farres, Reg. No. 43,606; Nancy Flint, Reg. No. 46,704; Christopher J. Forstner, Reg. No. 46,049; Nancy J. Jensen, Reg. No. 45,913; Herbert V. Kerner, Reg. No. 42,721; Jonathan D. Link, Reg. No. 41,548; J. Michael Martinez, Reg. No. 31,178; David H. Milligan, Reg. No. 42,893; James R. Miner, Reg. No. 40,444; Andrew J. Ririe, Reg. No. 45,597; Robert M. Schulman, Reg. No. 31,196; Thomas J. Scott, Jr., Reg. No. 27,836; 647; Yisun Song, Reg. No. 44,487; Scott F. Yarnell, Reg. No. 45,245, and any and all other attorneys/agents associated with Customer No. 21967, all of Hunton & Williams LLP, 1900 K Street, Washington, D.C. 20006-1109, as its attorneys/agents, with full power of substitution and revocation, to prosecute the above-referenced patent application and/or maintain the above-referenced patent, and any provisionals, continuations, continuations-in-part, divisionals, reissues, substitutions, re-examinations, and extensions thereof, to transact all business in the United States Patent and Trademark Office in connection therewith, to appoint any individuals under an associate power of attorney, and to file and prosecute any international patent application based thereon before any international authorities.

The assignee also hereby requests that all future communications in connection with the above-referenced patent application and/or patent be directed to:

Thomas E. Anderson  
Hunton & Williams LLP  
1900 K Street, N.W.  
Washington, D.C. 20006-1109  
Telephone: (202) 955-1500  
Facsimile: (202) 778-2201

The undersigned is authorized to act on behalf of the assignee.

Respectfully submitted,

Nortel Networks Limited

Date: 23 Sept 2003

Sign Name: [Signature]

Print Name: Thomas E. Anderson

Print Title: Corporate Counsel